

# Amiad Normally Closed valve

## Amiad



The Amiad NC is a hydraulic normally closed valve with high chemical and corrosion resistance suitable i.a. for the feeding of fertilisers and pesticides.

Without control pressure the valve remains hermetically closed, with control pressure it is open. As a result, the Amiad-NC is outstandingly suitable as a safety valve or as a selection valve for the (pressure-free) metering of fertilisers or pesticides. When used as a safety valve, the pressure from the irrigation system is used to operate the Amiad NC: if there is no pressure, the valve is closed and a storage tank cannot run empty. If the system is pressurised, the valve is automatically opened. When used as a selection valve, one or more valves can be opened by applying a control pressure. Expensive pneumatically or electrically controlled valves are thus made superfluous.

### APPLICATION

Application as a safety valve in suction systems for fertilisers, as a drain valve on filters or drain systems, as a selection valve in low-pressure systems

### CHARACTERISTICS

- ✓ Corrosion-free operation and resistant to all fertilisers and pesticides commonly used in greenhouse horticulture
- ✓ For connection straight or at an angle, with one or two ingoing ports
- ✓ The valves can be easily coupled for metering the same liquid into different systems
- ✓ A version with 3-way solenoid is possible
- ✓ Water or air-controlled
- ✓ The normally closed function of the valve ensures that the valve closes directly when there is no control pressure
- ✓ The valve can be installed in any position, with one inlet and one or two outlets or with two inlets and one outlet

### TECHNICAL DATA

Diameter	: ¾" (female thread)
Control connection	: ⅛" (female thread)
Maximum working pressure	: 10 bar
Minimum control pressure	: 0.4 bar (60% of inlet pressure)
Capacity range	: see chart
Maximum temperature	: 60 °C (with decreasing maximum pressure)
Pressure losses	: see chart
Material	: glassfibre-reinforced polypropylene (housing) : seals (EPDM and nitrile rubber) : Stainless steel 316 (metal parts - spring)

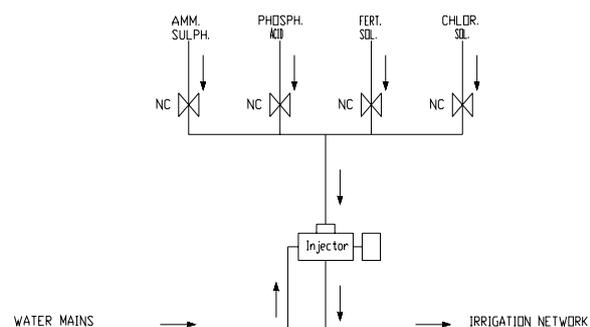
### Minimum control pressure

Working pressure	Control pressure (bar)
1,0	0,45
4,0	0,9
8,0	1,4

### Pressure loss

Capacity (l/min)	Pressure loss (mwc)
10	0,4
20	1,2
30	3,0

### Installation and application



## INSTALLATION & MAINTENANCE

- ✓ Installation in any position possible: With one inlet and one or two outlets or with two inlets and one outlet.
- ✓ The control pressure for the Amiad NC can be taken directly from the main flow (for example, a suction system is only opened when pressure is applied to the (main) line), or can be sourced externally (e.g. line water or air), possibly controlled by a 3-way solenoid.

### Parts list Amiad NC valve

No.	Omschrijving	Artikelnummer
1	N.C. valve plastic 3/4" black	A700190-001482
1.1	N.C. valve housing assy	A700190-003326
1.2	Cover RPP F/NC valve	A710103-000786
1.3	NC valve support acetal black	A710101-000681
1.4	Helical spring for valve general (32.5 mm)	A760107-000059
1.5	NC Valve valve RPP purple	A710101-000677
1.6	Seal housing 8" duplex	A710103-000682
1.7	NC valve insert RPP black	A710101-000679
1.8	3/4" plug RPP black	A710101-000675
1.9	Am-knee 8 mm x 1/4" M black/red	74480-012746*
1.10	Seal small fertilizers motor PU after annealing	A710103-010986 ●
1.11	Parker o-ring 2-019 Viton 75 shore green dot no flash	A770102-000226 ●
1.12	Parker o-ring 2-112 Viron 75 shore brown no flash	A770102-000232 ●
1.13	Phillips pan tap screw PT4x20 S/ST316	A760101-000537
1.14	Flat seal Viton OD17.1mm ID18.8mm NC Valve Fertigation	A770103-000102 ●
2	Parker o-ring 2-018 Viton 75 shore green dot no flash	A770102-000225
3	Fertilizers raccord nipple RPP black	A710101-000988
4	Fertilizers raccord nut RPP black	A710101-000986

Orange marked parts are assembled in the following set:  
74480-008450 Am NC 3/4" valve sealing set

\* also available: 76400-005150 Am T-piece 8 x 1/4" M black/red

